

**Math 2**  
**Practice Test Chapter 7**

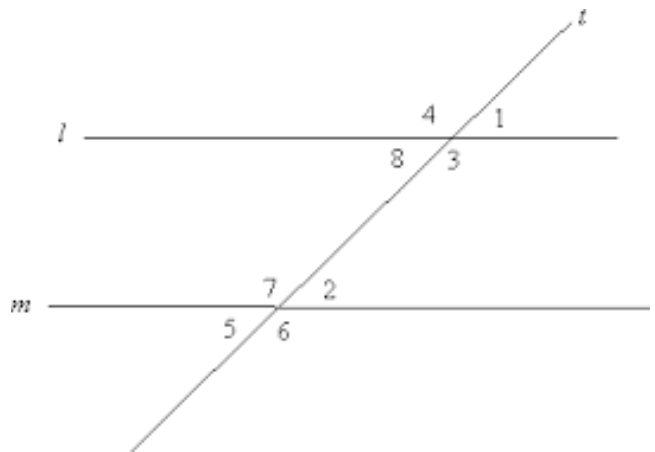
Name: \_\_\_\_\_ Per. \_\_\_\_\_

**Draw a picture that represents the following words.**

- |                           |                 |                         |
|---------------------------|-----------------|-------------------------|
| 1) Perpendicular Bisector | 2) Linear Pairs | 3) Altitude             |
| 4) Complementary angles   | 5) Median       | 6) Supplementary angles |

7) Name the following in the picture to the right.

- a) corresponding angles:
- b) same side exterior angles:
- c) same side interior angles:
- d) alternate interior angles:
- e) alternate exterior angles:
- f) Name 2 linear pairs:
- g) Name 2 vertical angles:



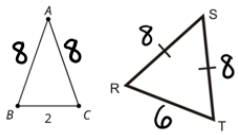
8) Name all the theorems that prove triangles are congruent and draw a picture for each.

- |    |    |    |    |    |
|----|----|----|----|----|
| a) | b) | c) | d) | e) |
|----|----|----|----|----|

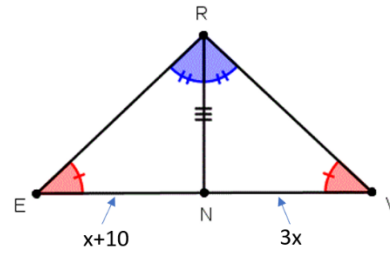
9) If you know that  $\triangle LMN \cong \triangle RST$ , then state all the sides and angles that are congruent.

10) Angle H is a complement to angle D. If angle H is 53 degrees, what is the measure of angle D?

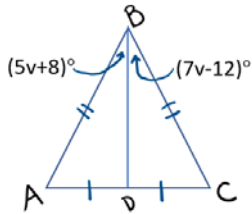
11) How does angle A relate to angle S?



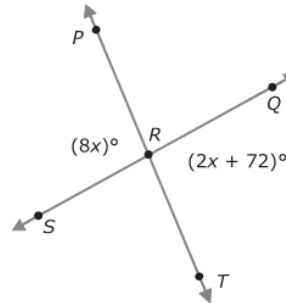
12) Find the length of EN.



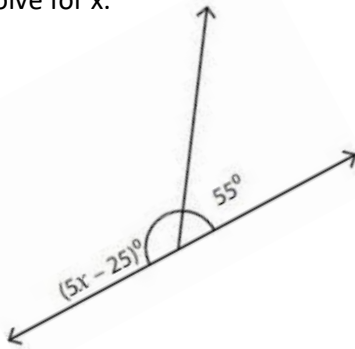
13) Solve for v.



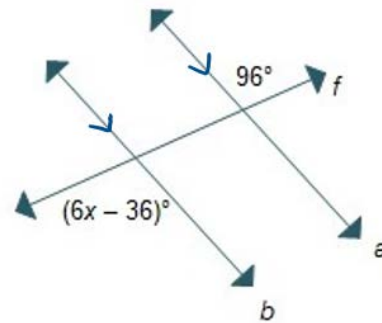
14) Solve for angle PRS and angle PRQ.



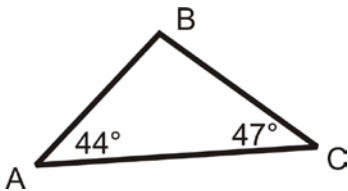
15) Solve for x.



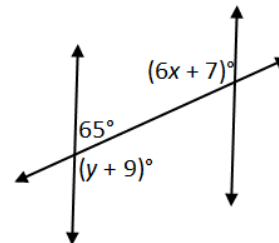
16) Solve for x.



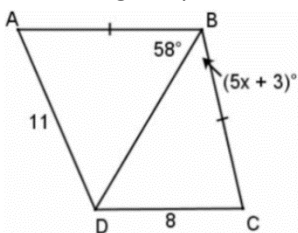
17) List the sides from shortest to longest.



18) Solve for x and y.



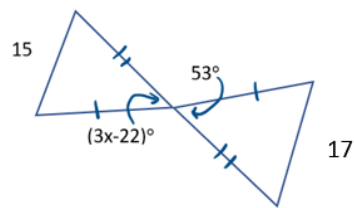
19) What is the range of possible values for x?



20) Can a triangle of sides lengths of 12cm, 13cm and 25cm? Explain your answer.

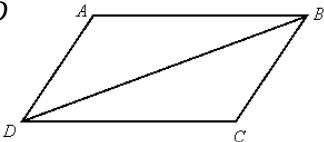
21) If a triangle has side lengths of 6 and 13, what are the possible lengths of the third side, x?

22) What are the possible values of x?



23) Given:  $AB \parallel CD, AB \cong CD$

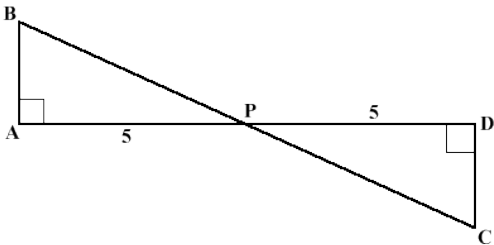
Prove:  $\triangle ABD \cong \triangle CDB$



Statements	Reasons
1)	1)
2)	2)
3)	3)
4) $\angle CBD \cong \angle ADB$	4)
5)	5)

24) Given: Diagram

Prove:  $\triangle ABP \cong \triangle DCP$



Statements	Reasons
1)	1)
2)	2)
3)	3)
4)	4)